Delaware Special Management Zone Areas

**Identification**

**CITATION**

**CITATION INFORMATION**

**ORIGINATOR**  NOAA Fisheries Greater Atlantic Regional Fisheries Office

**PUBLICATION DATE**  2018-07-20

**TITLE**

Delaware Special Management Zone Areas

**PUBLICATION INFORMATION**

**PUBLICATION PLACE**  Gloucester, MA

**PUBLISHER**  NOAA National Marine Fisheries Service (NMFS) - Greater Atlantic Regional Fisheries Office (GARFO)

**ONLINE LINKAGE**

http://www.greateratlantic.fisheries.noaa.gov/gis

http://www.greateratlantic.fisheries.noaa.gov/

**DESCRIPTION**

**ABSTRACT**

This dataset depicts the boundaries of the Delaware Special Management Zone Areas in ESRI shapefile format for the NOAA Fisheries Service’s Greater Atlantic Regional Fisheries Office (GARFO). This shapefile includes boundaries for the following Regulated Areas:

- Delaware Artificial Reef #9;
- Delaware Artificial Reef #10;
- Delaware Artificial Reef #11;
- Delaware Artificial Reef #13

Because GIS projection and topology functions can change or generalize coordinates, these GIS files are considered to be approximate representations and are NOT an OFFICIAL record for the exact regulated area boundaries. For information on the official legal definition refer to the Use Constraints metadata section.

**PURPOSE**

Beginning in 2010 and in response to mounting requests for digital depictions of NMFS Regulated Areas in Northeast and Mid-Atlantic Waters (Regulated Areas), the NMFS Greater Atlantic Regional Fisheries Office (GARFO) Geographic Information Systems (GIS) Committee launched a project to standardize the development, publication and regular updating of GIS files depicting Regulated Area boundaries. This dataset is a product of that initiative.

This dataset was created to depict the boundaries of NMFS Regulated Areas in Northeast and Mid-Atlantic Waters (Regulated Areas) only. For information on the proper use of the dataset refer to the Use Constraints metadata section.

**TIME PERIOD OF CONTENT**

**TIME PERIOD INFORMATION**

**SINGLE DATE/TIME**

**CALENDAR DATE**  2018-07-20

**CURRENTNESS REFERENCE**

Publication date

**STATUS**

**PROGRESS**  Complete

**MAINTENANCE AND UPDATE FREQUENCY**  As needed

**SPATIAL DOMAIN**

**BOUNDING COORDINATES**

**WEST BOUNDING COORDINATE**  -80

**EAST BOUNDING COORDINATE**  -64

**NORTH BOUNDING COORDINATE**  46
**KEYWORDS**

**THHEME**

**THEME KEYWORD  THESAURUS**  ISO 19115 Topic Category

**THEME KEYWORD**  boundaries

**THEME KEYWORD**  environment

**THEME KEYWORD**  location

**THEME KEYWORD**  oceans

**THEME KEYWORD**  planningCadastre

**THEME**

**THEME KEYWORD  THESAURUS**  EPA GIS Keyword Thesaurus

**THEME KEYWORD**  Biology

**THEME KEYWORD**  Compliance

**THEME KEYWORD**  Conservation

**THEME KEYWORD**  Ecology

**THEME KEYWORD**  Ecosystem

**THEME KEYWORD**  Environment

**THEME KEYWORD**  Human

**THEME KEYWORD**  Management

**THEME KEYWORD**  Marine

**THEME KEYWORD**  Monitoring

**THEME KEYWORD**  Natural Resources

**THEME KEYWORD**  Permits

**THEME KEYWORD**  Regulatory

**THEME KEYWORD**  Water

**THEME**

**THEME KEYWORD  THESAURUS**  GARFO Keywords

**THEME KEYWORD**  Atlantic

**THEME KEYWORD**  EEZ

**THEME KEYWORD**  Exclusive Economic Zone

**THEME KEYWORD**  GARFO

**THEME KEYWORD**  Greater Atlantic Regional Fisheries Office

**THEME KEYWORD**  MAFMC

**THEME KEYWORD**  Magnuson-Stevens Act

**THEME KEYWORD**  Mid-Atlantic Fishery Management Council

**THEME KEYWORD**  MSA

**THEME KEYWORD**  National Marine Fisheries Service

**THEME KEYWORD**  National Oceanic and Atmospheric Administration

**THEME KEYWORD**  NMFS

**THEME KEYWORD**  NOAA

**THEME KEYWORD**  Summer Flounder, Scup, and Black Sea Bass

**THEME KEYWORD**  US EEZ

**PLACE**

**PLACE KEYWORD  THESAURUS**  None

**PLACE KEYWORD**  United States

**PLACE KEYWORD**  Atlantic Ocean

**PLACE KEYWORD**  Greater Atlantic Region

**PLACE KEYWORD**  Mid-Atlantic

**PLACE KEYWORD**  US EEZ

**PLACE KEYWORD**  US Exclusive Economic Zone

**ACCESS CONSTRAINTS**
**CONTACT PERSON PRIMARY**
**CONTACT PERSON** Doug Potts
**CONTACT ORGANIZATION** NOAA Fisheries Service Greater Atlantic Regional Fisheries Office, Sustainable Fisheries Division
**CONTACT POSITION** GIS Committee Sustainable Fisheries Representative
**CONTACT ADDRESS**
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**CITY** Gloucester
**STATE OR PROVINCE** MA
**POSTAL CODE** 01930

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http://www.greateratlantic.fisheries.noaa.gov/

**SECURITY INFORMATION**
**SECURITY CLASSIFICATION SYSTEM** FIPS Pub 199
**SECURITY CLASSIFICATION** public
**SECURITY HANDLING DESCRIPTION** Standard Technical Controls

**Data Quality**

**LOGICAL CONSISTENCY REPORT**
Check Geometry test has been performed in ArcGIS.

**COMPLETENESS REPORT**
Features represented are valid. No geometry problems were detected.

**POSITIONAL ACCURACY**

**HORIZONTAL POSITIONAL ACCURACY**

**HORIZONTAL POSITIONAL ACCURACY REPORT**
Data were collected using methods that are accurate to within 2-5 meters (EPA National Geospatial Data Policy [NGDP] Accuracy Tier 2). For more information, please see EPA’s NGDP at http://epa.gov/geospatial/policies.html

**LINEAGE**

**SOURCE INFORMATION**
**SOURCE CITATION**
**CITATION INFORMATION**
**ORIGINATOR** Department of Commerce (DOC), National Oceanic and Atmospheric Administration (NOAA), National Marine Fisheries Service (NMFS)
**PUBLICATION DATE** 2018-70-9

**TITLE**
Electronic Code of Federal Regulations

**EDITION** Special Edition of the Federal Register

**GEOSPATIAL DATA PRESENTATION FORM** document

**PUBLICATION INFORMATION**
**PUBLICATION PLACE** Washington, DC
**PUBLISHER** Office of the Federal Register, National Archives and Records Administration and the Government Printing Office

**OTHER CITATION DETAILS**
The Electronic Code of Federal Regulations (e-CFR) is a current, daily updated version of the Code of Federal Regulations (CFR). It is not an official legal edition of the CFR. The e-CFR is an unofficial editorial compilation of CFR material and Federal Register amendments. Because the e-CFR is updated daily, the PUBLICATION DATE identified above refers to "e-CFR Data is current as of" date posted on the e-CFR website at the time the spatial definition was accessed online.

**ONLINE LINKAGE** http://www.ecfr.gov
Spatial definitions for Regulated Area boundaries.

[Template Generation] Many NMFS Regulated Areas in Northeast and Mid-Atlantic Waters (Regulated Areas) share boundaries that are partially coincident with any combination of the following: 1) the U.S. Atlantic coastline; 2) the Submerged Lands Act boundary; 3) the U.S.-Canada Maritime Boundary in the Gulf of Maine; 4) the outward extent of the U.S. Exclusive Economic Zone (a.k.a. the "200-nautical mile line"). To standardize Regulated Area features sharing these boundaries, published shapefiles of the shared administrative boundaries were obtained from the authoritative agencies. A shoreline was selected that was suitable for general mapping purposes, freely and publicly available, of medium-resolution, and covering the extent of the U.S.. When necessary, the boundaries were transformed to NAD83. A series of template polygon shapefiles were then generated, using these authoritative boundaries as the outward extents of the polygon. All templates were generated in NAD83 geographic coordinate system. The templates created are: 1) Coast-to-EEZ: bounded by the coastline, the U.S.-Canada Maritime Boundary, the U.S. EEZ, and 81°W longitude off the southern extent of Florida (an arbitrary cut-off for the Atlantic); 2) Coast-to-SLA: bounded by the coastline, the U.S.-Canada Maritime Boundary, the Submerged Lands Act boundary, and 81°W longitude off the southern extent of Florida; 3) SLA-to-EEZ: bounded by the Submerged Lands Act boundary, the U.S.-Canada Maritime Boundary, the U.S. EEZ, and 81°W longitude off the southern extent of Florida. These templates were subsequently copied and edited, as needed by the Regulated Area spatial definitions.

[Get Definition Text] The current legal spatial definition for the Regulated Area was copied from the e-CFR website.

[Features, No Template] If necessary, the coordinates of the Regulated Area were converted to Decimal Degrees. To generate the Regulated Area boundary in ArcGIS, these points were connected in the order specified in the spatial definition. When the spatial definition specified that points were connected by following a straight line, rhumb lines were constructed. When multiple Regulated Areas are a part of a larger grouping of related Regulated Areas, these steps were repeated to generate a unique feature for each Regulated Area and the features were then combined into a single shapefile. The file was projected to NAD83 Mercator Projection, and the boundaries were densified with consecutive vertices spaced no more than 10 nautical miles apart to preserve rhumb line paths in other coordinate systems. The file was projected back to the un-projected NAD83 coordinate system.
The standardized attribute schema was applied to the shapefile, and the fields were defined.

**Process Date** 2018

**Process Step**
**Process Description**
Policy Review The Regulated Area spatial definition text, shapefile geometry and attribute values were reviewed with policy staff to verify that the shapefile accurately depicted and described the intended boundaries.

**Process Date** 2018

**Process Step**
**Process Description**
Check Geometry The ESRI ArcGIS Check Geometry tool was run on the shapefile to identify any geometry problems. If problems were encountered, they were reviewed and corrected.

**Process Date** 2018

**Process Step**
**Process Description**
Metadata A GARFO Regulated Area shapefile metadata template was developed using the EPA Metadata Editor v3.2. This template was applied and customized to reflect the specific characteristics of the given shapefile. The metadata was validated for FGDC CSDGM compliance.

**Process Date** 2018

**Process Step**
**Process Description**
Final Review The shapefile was reviewed by members of the GARFO GIS Committee, policy experts from the GARFO Division responsible for the Regulated Area, and General Counsel, according to the GARFO GIS Data Distribution Policy.

**Process Date** 2018

**Process Step**
**Process Description**
Publication The shapefile, with accompanying metadata, was uploaded for public download on the NOAA NMFS GARFO GIS website.

**Process Date** 2018-07-20

**Spatial Reference**

**Horizontal Coordinate System Definition**
**Geographic**
Latitude Resolution 0.000001
Longitude Resolution 0.000001
Geographic Coordinate Units Decimal degrees

**Geodetic Model**
Horizontal Datum Name North American Datum of 1983
Ellipsoid Name Geodetic Reference System 1980
Semi-major Axis 6378137.000000
Denominator of Flattening Ratio 298.257222

**Entities and Attributes**

**Detailed Description**
**Entity Type**
**Entity Type Label** Regulated Area
**Entity Type Definition**
NMFS Regulated Areas in Northeast and Mid-Atlantic Waters

**ENTITY TYPE DEFINITION SOURCE** GARFO

**ATTRIBUTE**
**ATTRIBUTE LABEL** FID
**ATTRIBUTE DEFINITION**
Internal feature number
**ATTRIBUTE DEFINITION SOURCE** ESRI
**ATTRIBUTE DOMAIN VALUES**
UNREPRESENTABLE DOMAIN
System-generated internal feature number

**ATTRIBUTE**
**ATTRIBUTE LABEL** Shape
**ATTRIBUTE DEFINITION**
Feature geometry
**ATTRIBUTE DEFINITION SOURCE** ESRI
**ATTRIBUTE DOMAIN VALUES**
UNREPRESENTABLE DOMAIN
Coordinate geometry

**ATTRIBUTE**
**ATTRIBUTE LABEL** GARFO_ID
**ATTRIBUTE DEFINITION**
A unique identifier used to identify and track this feature; a new GARFO_ID is generated for each version of a Regulated Area (i.e. whenever boundaries or attributes are changed, edited or updated)
**ATTRIBUTE DEFINITION SOURCE** GARFO
**ATTRIBUTE DOMAIN VALUES**
UNREPRESENTABLE DOMAIN
System-generated number

**ATTRIBUTE**
**ATTRIBUTE LABEL** AREANAME
**ATTRIBUTE DEFINITION**
Official name of the Regulated Area, usually the area name as printed in the CFR
**ATTRIBUTE DEFINITION SOURCE** GARFO
**ATTRIBUTE DOMAIN VALUES**
UNREPRESENTABLE DOMAIN
Free text name

**ATTRIBUTE**
**ATTRIBUTE LABEL** COMMNAME
**ATTRIBUTE DEFINITION**
Most commonly used name. May be identical to AREANAME, an abbreviation of AREANAME, or a different name altogether.
**ATTRIBUTE DEFINITION SOURCE** GARFO
**ATTRIBUTE DOMAIN VALUES**
UNREPRESENTABLE DOMAIN
Free text name

**ATTRIBUTE**
**ATTRIBUTE LABEL** AREAGROUP
**ATTRIBUTE DEFINITION**
Specifies if the Regulated Area is part of a group of related areas
**ATTRIBUTE DEFINITION SOURCE** GARFO
**ATTRIBUTE DOMAIN VALUES**
UNREPRESENTABLE DOMAIN
Free text name

ATTRIBUTE
ATTRIBUTE LABEL DESCRIBE
ATTRIBUTE DEFINITION
A brief description of the purpose of the Regulated Area
ATTRIBUTE DEFINITION SOURCE GARFO
ATTRIBUTE DOMAIN VALUES
UNREPRESENTABLE DOMAIN
Free text description

ATTRIBUTE
ATTRIBUTE LABEL CFRTITLE
ATTRIBUTE DEFINITION
CFR Title citation where the Regulated Area is legally defined
ATTRIBUTE DEFINITION SOURCE GARFO
ATTRIBUTE DOMAIN VALUES
UNREPRESENTABLE DOMAIN
Free text name

ATTRIBUTE
ATTRIBUTE LABEL CFRPT
ATTRIBUTE DEFINITION
CFR Part citation where the Regulated Area is legally defined
ATTRIBUTE DEFINITION SOURCE GARFO
ATTRIBUTE DOMAIN VALUES
UNREPRESENTABLE DOMAIN
Free text citation

ATTRIBUTE
ATTRIBUTE LABEL CFRPTTXT
ATTRIBUTE DEFINITION
CFR Part citation header text
ATTRIBUTE DEFINITION SOURCE GARFO
ATTRIBUTE DOMAIN VALUES
UNREPRESENTABLE DOMAIN
Free text name

ATTRIBUTE
ATTRIBUTE LABEL CFRSUB
ATTRIBUTE DEFINITION
CFR Subpart citation where the Regulated Area is legally defined
ATTRIBUTE DEFINITION SOURCE GARFO
ATTRIBUTE DOMAIN VALUES
UNREPRESENTABLE DOMAIN
Free text citation

ATTRIBUTE
ATTRIBUTE LABEL CFRSUBTXT
ATTRIBUTE DEFINITION
CFR Subpart citation header text
ATTRIBUTE DEFINITION SOURCE GARFO
ATTRIBUTE DOMAIN VALUES
UNREPRESENTABLE DOMAIN
Free text name

ATTRIBUTE
ATTRIBUTE LABEL CFRSXN
ATTRIBUTE DEFINITION
CFR Section citation where the Regulated Area is legally defined
ATTRIBUTE DEFINITION SOURCE GARFO
ATTRIBUTE DOMAIN VALUES UNREPRESENTABLE DOMAIN
Free text citation

ATTRIBUTE
ATTRIBUTE LABEL CFRSXNTXT
ATTRIBUTE DEFINITION
CFR Section citation header text
ATTRIBUTE DEFINITION SOURCE GARFO
ATTRIBUTE DOMAIN VALUES UNREPRESENTABLE DOMAIN
Free text name

ATTRIBUTE
ATTRIBUTE LABEL CFRPARA
ATTRIBUTE DEFINITION
CFR Paragraph citation where the Regulated Area is legally defined
ATTRIBUTE DEFINITION SOURCE GARFO
ATTRIBUTE DOMAIN VALUES UNREPRESENTABLE DOMAIN
Free text citation

ATTRIBUTE
ATTRIBUTE LABEL CFRPARATXT
ATTRIBUTE DEFINITION
CFR Paragraph citation header text
ATTRIBUTE DEFINITION SOURCE GARFO
ATTRIBUTE DOMAIN VALUES UNREPRESENTABLE DOMAIN
Free text name

ATTRIBUTE
ATTRIBUTE LABEL FRCITE
ATTRIBUTE DEFINITION
Federal Register citation of original Regulated Area spatial definition, or last modification to the spatial definition, whichever is most recent. Refers to SPATIAL DEFINITION ONLY. Subsequent FR notices may have modified the requirements affecting waters within or outside this Regulated Area.
ATTRIBUTE DEFINITION SOURCE GARFO
ATTRIBUTE DOMAIN VALUES UNREPRESENTABLE DOMAIN
Free text name

ATTRIBUTE
ATTRIBUTE LABEL FRDATE
ATTRIBUTE DEFINITION
Federal Register citation date of original Regulated Area spatial definition, or the last modification to the spatial definition, whichever is most recent. Refers to SPATIAL DEFINITION ONLY. Subsequent FR notices may have modified the requirements affecting waters within or outside this Regulated Area.
ATTRIBUTE DEFINITION SOURCE GARFO
ATTRIBUTE DOMAIN VALUES UNREPRESENTABLE DOMAIN
Date
ATTRIBUTE
ATTRIBUTE LABEL  EFFECTDATE
ATTRIBUTE DEFINITION
Date Regulated Area officially became law, or most recent modification
ATTRIBUTE DEFINITION SOURCE  GARFO
ATTRIBUTE DOMAIN VALUES
UNREPRESENTABLE DOMAIN
Date

ATTRIBUTE
ATTRIBUTE LABEL  SOURCE
ATTRIBUTE DEFINITION
If Regulated Area is defined in the CFR, this is the citation for the Amendment/Framework/etc.
that established the area. If the Regulated Area is not defined in the CFR, this is the alternative
source citation establishing the Regulated Area.
ATTRIBUTE DEFINITION SOURCE  GARFO
ATTRIBUTE DOMAIN VALUES
UNREPRESENTABLE DOMAIN
Free text citation

ATTRIBUTE
ATTRIBUTE LABEL  RECURST
ATTRIBUTE DEFINITION
Annually recurring date Regulated Area becomes active
ATTRIBUTE DEFINITION SOURCE  GARFO
ATTRIBUTE DOMAIN VALUES
UNREPRESENTABLE DOMAIN
Date

ATTRIBUTE
ATTRIBUTE LABEL  RECUREND
ATTRIBUTE DEFINITION
Annually recurring date Regulated Area becomes inactive
ATTRIBUTE DEFINITION SOURCE  GARFO
ATTRIBUTE DOMAIN VALUES
UNREPRESENTABLE DOMAIN
Date

ATTRIBUTE
ATTRIBUTE LABEL  GISAUTHOR
ATTRIBUTE DEFINITION
Name of the NOAA staff person who created the GIS feature
ATTRIBUTE DEFINITION SOURCE  GARFO
ATTRIBUTE DOMAIN VALUES
UNREPRESENTABLE DOMAIN
Name

ATTRIBUTE
ATTRIBUTE LABEL  CREATED
ATTRIBUTE DEFINITION
Creation date of the GIS feature
ATTRIBUTE DEFINITION SOURCE  GARFO
ATTRIBUTE DOMAIN VALUES
UNREPRESENTABLE DOMAIN
Date

ATTRIBUTE
ATTRIBUTE LABEL  AREANOTES
**ATTRIBUTE DEFINITION**
Miscellaneous notes regarding the Regulated Area or feature

**ATTRIBUTE DEFINITION SOURCE**  GARFO

**ATTRIBUTE DOMAIN VALUES**
UNREPRESENTABLE DOMAIN

**Free text description**

**OVERVIEW DESCRIPTION**

**ENTITY AND ATTRIBUTE OVERVIEW**
Entity Attributes provide reference information for the Regulated Areas represented. Attributes provide citations for the legal spatial definition and originating documents, and currentness information for each area.

**ENTITY AND ATTRIBUTE DETAIL CITATION**
FILEDS_Map.xlsx fully describes the Attribute Schema used for regulated area GIS data sets. To access this document, see the Contact Information.

**Distribution Information**

**DISTRIBUTOR**

**CONTACT INFORMATION**
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**CONTACT POSITION** GIS Specialist
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**RESOURCE DESCRIPTION**  Downloadable Data

**DISTRIBUTION LIABILITY**
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**Metadata Reference**

**METADATA DATE**  2018-07-20
**METADATA FUTURE REVIEW DATE**  2022-07-20
**METADATA CONTACT**
**CONTACT INFORMATION**
**CONTACT PERSON PRIMARY**
CONTACT PERSON   Dean-Lorenz Szumylo
CONTACT ORGANIZATION   NOAA Fisheries Service Greater Atlantic Regional Fisheries Office, GIS Committee
CONTACT POSITION   GIS Specialist
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ADDRESS   55 Great Republic Drive
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STATE OR PROVINCE   MA
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http://www.greateratlantic.fisheries.noaa.gov/

METADATA STANDARD NAME   FGDC Content Standard for Digital Geospatial Metadata
METADATA STANDARD VERSION   FGDC-STD-001-1998